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## RAW SEQUENCE LISTING

DATE: 03/10/2003

PATENT APPLICATION: US/09/810,601B

TIME: 11:59:00

Input Set : A:\D2947CIP Sequence 030220.txt

Output Set: N:\CRF4\03102003\I810601B.raw

3 <110> APPLICANT: Allergan Sales, Inc.  
 4 Donovan, Stephen  
 6 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING GONADOTROPHIN RELATED ILLNESSES

8 <130> FILE REFERENCE: D-2947-CIP  
 10 <140> CURRENT APPLICATION NUMBER: 09/810,601B  
 11 <141> CURRENT FILING DATE: 2001-03-15  
 13 <150> PRIOR APPLICATION NUMBER: 09/692,811  
 14 <151> PRIOR FILING DATE: 2000-10-20  
 16 <160> NUMBER OF SEQ ID NOS: 52  
 18 <170> SOFTWARE: PatentIn version 3.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 10  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Homo sapiens  
 25 <220> FEATURE:  
 26 <221> NAME/KEY: MISC\_FEATURE  
 27 <222> LOCATION: (1)..(1)  
 28 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu

ENTERED

OK> 31 <400> SEQUENCE: 1  
 33 Xaa His Trp Ser Tyr Gly Leu Arg Pro Gly  
 34 1 5 10  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 10  
 39 <212> TYPE: PRT  
 40 <213> ORGANISM: Artificial Sequence  
 42 <220> FEATURE:  
 43 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
 45 <220> FEATURE:  
 46 <221> NAME/KEY: MISC\_FEATURE  
 47 <222> LOCATION: (1)..(1)  
 48 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
 51 <220> FEATURE:  
 52 <221> NAME/KEY: MISC\_FEATURE  
 53 <222> LOCATION: (10)..(10)  
 54 <223> OTHER INFORMATION: Xaa at position 10 is Gly-NH2  
 57 <400> SEQUENCE: 2  
 OK> 59 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa  
 60 1 5 10  
 63 <210> SEQ ID NO: 3  
 64 <211> LENGTH: 9  
 65 <212> TYPE: PRT  
 66 <213> ORGANISM: Artificial Sequence  
 68 <220> FEATURE:

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69 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
71 <220> FEATURE:  
72 <221> NAME/KEY: MISC\_FEATURE  
73 <222> LOCATION: (1)..(1)  
74 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
77 <220> FEATURE:  
78 <221> NAME/KEY: MISC\_FEATURE  
79 <222> LOCATION: (9)..(9)  
80 <223> OTHER INFORMATION: Xaa at position 9 is proline-ethylamide  
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86 1 5  
89 <210> SEQ ID NO: 4  
90 <211> LENGTH: 10  
91 <212> TYPE: PRT  
92 <213> ORGANISM: Artificial Sequence  
94 <220> FEATURE:  
95 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
97 <220> FEATURE:  
98 <221> NAME/KEY: MISC\_FEATURE  
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100 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
103 <220> FEATURE:  
104 <221> NAME/KEY: MISC\_FEATURE  
105 <222> LOCATION: (10)..(10)  
106 <223> OTHER INFORMATION: Xaa at position 10 is Aza-Gly-NH2  
OK-> 109 <400> SEQUENCE: 4  
111 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa  
112 1 5 10  
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121 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
123 <220> FEATURE:  
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125 <222> LOCATION: (1)..(1)  
126 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
129 <220> FEATURE:  
130 <221> NAME/KEY: MISC\_FEATURE  
131 <222> LOCATION: (10)..(10)  
132 <223> OTHER INFORMATION: Xaa at position 10 is Gly-NH2  
OK-> 135 <400> SEQUENCE: 5  
137 Xaa His Trp Ser Tyr Lys Leu Arg Pro Xaa  
138 1 5 10  
141 <210> SEQ ID NO: 6  
142 <211> LENGTH: 9  
143 <212> TYPE: PRT

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Input Set : A:\D2947CIP Sequence 030220.txt

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144 <213> ORGANISM: Artificial Sequence  
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 157 <222> LOCATION: (9)..(9)  
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 164 1 5  
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 169 <212> TYPE: PRT  
 170 <213> ORGANISM: Artificial Sequence  
 172 <220> FEATURE:  
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 177 <222> LOCATION: (1)..(1)  
 178 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
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 182 <221> NAME/KEY: MISC\_FEATURE  
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 184 <223> OTHER INFORMATION: Xaa at position 10 is Aza-Gly-NH2  
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 190 1 5 10  
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 195 <212> TYPE: PRT  
 196 <213> ORGANISM: Artificial Sequence  
 198 <220> FEATURE:  
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 201 <220> FEATURE:  
 202 <221> NAME/KEY: MISC\_FEATURE  
 203 <222> LOCATION: (1)..(1)  
 204 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
 207 <220> FEATURE:  
 208 <221> NAME/KEY: MISC\_FEATURE  
 209 <222> LOCATION: (6)..(6)  
 210 <223> OTHER INFORMATION: Xaa at position 6 is D-Lys  
 213 <220> FEATURE:  
 214 <221> NAME/KEY: MISC\_FEATURE  
 215 <222> LOCATION: (10)..(10)  
 216 <223> OTHER INFORMATION: Xaa at position 10 is Gly-NH2

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Input Set : A:\D2947CIP Sequence 030220.txt

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219 <400> SEQUENCE: 8

OK 221 Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa  
 222 1 5 10

225 <210> SEQ ID NO: 9

226 <211> LENGTH: 9

227 <212> TYPE: PRT

228 <213> ORGANISM: Artificial Sequence

230 <220> FEATURE:

231 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue

233 <220> FEATURE:

234 <221> NAME/KEY: MISC\_FEATURE

235 <222> LOCATION: (1)..(1)

236 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu

239 <220> FEATURE:

240 <221> NAME/KEY: MISC\_FEATURE

241 <222> LOCATION: (6)..(6)

242 <223> OTHER INFORMATION: Xaa at position 6 is D-Lys

245 <220> FEATURE:

246 <221> NAME/KEY: MISC\_FEATURE

247 <222> LOCATION: (9)..(9)

248 <223> OTHER INFORMATION: Xaa at position 9 is proline-ethylamide

OK 251 <400> SEQUENCE: 9

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 254 1 5

257 <210> SEQ ID NO: 10

258 <211> LENGTH: 10

259 <212> TYPE: PRT

260 <213> ORGANISM: Artificial Sequence

262 <220> FEATURE:

263 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue

265 <220> FEATURE:

266 <221> NAME/KEY: MISC\_FEATURE

267 <222> LOCATION: (1)..(1)

268 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu

271 <220> FEATURE:

272 <221> NAME/KEY: MISC\_FEATURE

273 <222> LOCATION: (6)..(6)

274 <223> OTHER INFORMATION: Xaa at position 6 is D-Lys

277 <220> FEATURE:

278 <221> NAME/KEY: MISC\_FEATURE

279 <222> LOCATION: (10)..(10)

280 <223> OTHER INFORMATION: Xaa at position 10 is Aza-Gly-NH2

OK 283 <400> SEQUENCE: 10

OK 285 Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa  
 286 1 5 10

289 <210> SEQ ID NO: 11

290 <211> LENGTH: 10

291 <212> TYPE: PRT

292 <213> ORGANISM: Artificial Sequence

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DATE: 03/10/2003

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Input Set : A:\D2947CIP Sequence 030220.txt

Output Set: N:\CRF4\03102003\I810601B.raw

294 <220> FEATURE:  
 295 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
 297 <220> FEATURE:  
 298 <221> NAME/KEY: MISC\_FEATURE  
 299 <222> LOCATION: (1)..(1)  
 300 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
 303 <220> FEATURE:  
 304 <221> NAME/KEY: MISC\_FEATURE  
 305 <222> LOCATION: (6)..(6)  
 306 <223> OTHER INFORMATION: Xaa at position 6 is Ornithine  
 309 <220> FEATURE:  
 310 <221> NAME/KEY: MISC\_FEATURE  
 311 <222> LOCATION: (10)..(10)  
 312 <223> OTHER INFORMATION: Xaa at position 10 is Gly-NH2  
 315 <400> SEQUENCE: 11  
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 318 1 5 10  
 321 <210> SEQ ID NO: 12  
 322 <211> LENGTH: 9  
 323 <212> TYPE: PRT  
 324 <213> ORGANISM: Artificial Sequence  
 326 <220> FEATURE:  
 327 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
 329 <220> FEATURE:  
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 331 <222> LOCATION: (1)..(1)  
 332 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
 335 <220> FEATURE:  
 336 <221> NAME/KEY: MISC\_FEATURE  
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 338 <223> OTHER INFORMATION: Xaa at position 6 is Ornithine  
 341 <220> FEATURE:  
 342 <221> NAME/KEY: MISC\_FEATURE  
 343 <222> LOCATION: (9)..(9)  
 344 <223> OTHER INFORMATION: Xaa at position 9 is proline-ethylamide  
 347 <400> SEQUENCE: 12  
 349 Xaa His Trp Ser Tyr Xaa Leu Arg Xaa  
 350 1 5  
 353 <210> SEQ ID NO: 13  
 354 <211> LENGTH: 10  
 355 <212> TYPE: PRT  
 356 <213> ORGANISM: Artificial Sequence  
 358 <220> FEATURE:  
 359 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
 361 <220> FEATURE:  
 362 <221> NAME/KEY: MISC\_FEATURE  
 363 <222> LOCATION: (1)..(1)  
 364 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
 367 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/810,601B

DATE: 03/10/2003  
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Input Set : A:\D2947CIP Sequence 030220.txt  
Output Set: N:\CRF4\03102003\I810601B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1  
Seq#:2; Xaa Pos. 1,10  
Seq#:3; Xaa Pos. 1,9  
Seq#:4; Xaa Pos. 1,10  
Seq#:5; Xaa Pos. 1,10  
Seq#:6; Xaa Pos. 1,9  
Seq#:7; Xaa Pos. 1,10  
Seq#:8; Xaa Pos. 1,6,10  
Seq#:9; Xaa Pos. 1,6,9  
Seq#:10; Xaa Pos. 1,6,10  
Seq#:11; Xaa Pos. 1,6,10  
Seq#:12; Xaa Pos. 1,6,9  
Seq#:13; Xaa Pos. 1,6,10  
Seq#:14; Xaa Pos. 1,6,10  
Seq#:15; Xaa Pos. 1,6,9  
Seq#:16; Xaa Pos. 1,6,10  
Seq#:17; Xaa Pos. 1,10  
Seq#:18; Xaa Pos. 1,9  
Seq#:19; Xaa Pos. 1,10  
Seq#:20; Xaa Pos. 1,6,10  
Seq#:21; Xaa Pos. 1,6,9  
Seq#:22; Xaa Pos. 1,6,10  
Seq#:23; Xaa Pos. 1,10  
Seq#:24; Xaa Pos. 1,9  
Seq#:25; Xaa Pos. 1,10  
Seq#:26; Xaa Pos. 1,6,10  
Seq#:27; Xaa Pos. 1,6,9  
Seq#:28; Xaa Pos. 1,6,10  
Seq#:29; Xaa Pos. 1,10  
Seq#:30; Xaa Pos. 1,9  
Seq#:31; Xaa Pos. 1,10  
Seq#:32; Xaa Pos. 1,6,10  
Seq#:33; Xaa Pos. 1,6,9  
Seq#:34; Xaa Pos. 1,6,10  
Seq#:35; Xaa Pos. 1,10  
Seq#:36; Xaa Pos. 1,9  
Seq#:37; Xaa Pos. 1,10  
Seq#:38; Xaa Pos. 1,6,10  
Seq#:39; Xaa Pos. 1,6,9  
Seq#:40; Xaa Pos. 1,6,10  
Seq#:46; Xaa Pos. 1,6,9  
Seq#:51; Xaa Pos. 2,3,5

## VERIFICATION SUMMARY

DATE: 03/10/2003

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Input Set : A:\D2947CIP Sequence 030220.txt

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L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
L:967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:1025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0  
L:1077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:1109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0  
L:1141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0  
L:1173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
L:1275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0  
L:1369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0